Comparative cost and preferred method

The left association is the proved optimum within the two classical dense schedules. The reduction is 422.4 in multiplication count and $32,768$ in intermediate entry count. These are exact arithmetic/storage ratios, not measured wall-clock speedups. Scaled, matched-output experiments test the trend without allocating the full 8 GiB intermediate; fast matrix multiplication and hardware-dependent blocking lie outside the cost model.